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(12) PATENT SPECIFICATION
ABRIDGEMENT
(19) AU

(21)	87467/75	498,016	(22)	11.12.75
(23)	11.12.75		(24)	11.12.75
(43)	16.6.77		(44)	1.2.79

(51)² B65D 5/24 B65D 85/74 B65D 5/42 B65D 85/76
B63D 5/64 B65D 5/66.

(54) TROUGH-SHAPED PACKAGE.

(71) AB AKERLUND & RAUSING.

(72) ANDERSSON R.U., BJORKLUND B.G. and HEDBERG T.

(74) WM.

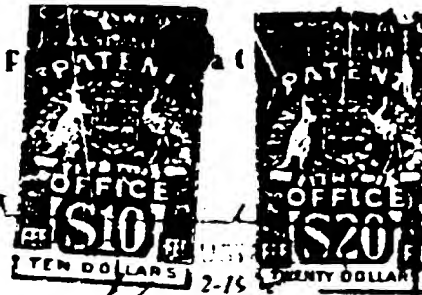
(56) 60108/73 473546 48.5 57.2
37584/58 450625 48.5
11282/55 207457 48.5

(57) CLAIM 1. A container comprising a bottom wall, side walls projecting upwardly from said bottom wall to define a cavity and a side wall edge flange projecting outwardly from said side walls, said side wall edge flange being reinforced by a frame member or members attached thereto having a portion or portions extending inwardly into said cavity, and a cover member comprising an outer edge flange integral with an inner countersunk portion disposed in a different plane to said outer edge flange and connected thereto by a substantially vertical portion, said countersunk portion and said vertical portion of the cover co-operating with the portion or portions of said reinforcing frame member or members extending into said cavity to lock said cover member in connected relationship to said container.

(NON-CONVENTION: By one or more persons)

Form 1.

COMMON



APPLICATION FOR A PATENT
PATENT OFFICE

498,016

87 467 /75

(1) Here
insert in
full Name
of Applicant,
followed by
Address (es)

XXXX
We

AB AKERLUND & RAUSING,
of 221 01 LUND 1,
SWEDEN,

(2) Here
insert title
of Invention

hereby apply for the grant of a Patent for an invention entitled: (2)

"A TROUGH-SHAPED PACKAGE, PARTICULARLY FOR EDIBLE
FAT OR THE LIKE",

Fee Stamp to value of

attached

Mail Officer

which is described in the accompanying ~~XXXXXXX~~ specification.

COMPLETE
APPLICATION ACCEPTED AND AMENDMENTS

ALLOWED 28.11.78

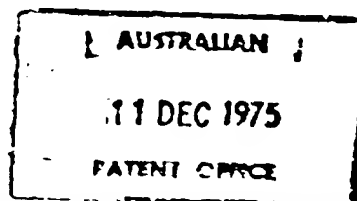
XXXX
Our

Address for service is Messrs. Edwd. Waters & Sons, Patent Attorneys,

50 QUEEN ST., MELBOURNE, Victoria, Australia.

DATED this 10TH day of DECEMBER, 19 75.

(3) Signa-
ture (or of
Applicant (s)
or
Sole or
Jointly and
Solely of
the Officer as
authorized by
the Attorney of
Australia



AB AKERLUND & RAUSING.

BY:-

[Signature]

DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT OR PATENT OF ADDITION

87 46 7 775

(1) Here
insert (in
full) Name of
Company.

In support of the Application made by⁽¹⁾

AB AKERLUND & RAUSING,

(2) Here
insert title
of invention.

for a Patent

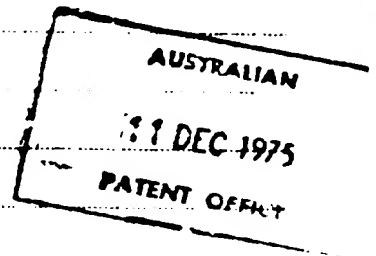
for an invention entitled:⁽²⁾

"A TROUGH-SHAPED PACKAGE, PARTICULARLY FOR EDIBLE
FAT OR THE LIKE".

(3) Here
insert full
Name
and Address
of Company
Official
authorized
to make
declaration.

I, ⁽³⁾ Gunnar Roberg,

of 221 01 Lund 1, Sweden,



do solemnly and sincerely declare as follows:

1. I am authorized by⁽¹⁾ AB AKERLUND & RAUSING

the applicant for the patent to make this declaration on its behalf.

(4) Here
insert (in
full) Name
and Address
of Actual
Inventor or
Inventors

2. ⁽⁴⁾ ROLF URBAN ANDERSSON, of Martens Vag 9,
222 48 Lund, BENGT GORAN BJORKLUND of Humlevagen 21, 244
00 KAVLINGE, and TOMMY HEDBERG of Musikantvagen 6 c,
223 68 Lund, all in Sweden

XX
are

the actual inventors of the invention and the facts upon which⁽⁴⁾

AB AKERLUND & RAUSING,
is entitled to make the application, are as follows:

The said⁽⁴⁾ Applicant would be entitled, if a patent

~~or be so entitled~~ granted, to have said patent assigned

to it by virtue of service agreements with the said
actual inventors.

DECLARED at Lund, Sweden,

this 1st

day of December

19 75

A. B. AKERLUND & RAUSING

(5) Full Name
of Actual
Inventor or
Inventors

Paragraph 2
should be
completed by
stating de-
claration of
title, etc.
The said
(Name of
applicant) is
the assignee
of the said
(Name of
inventor(s))

SECTION 49.

and is correct for printing.

23:179-100

COMMONWEALTH OF AUSTRALIA
PATENTS ACT 1952-59

Form 10

COMPLETE SPECIFICATION

(ORIGINAL)

8746715

Application Number:
Lodged:

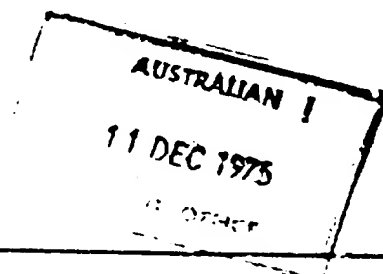
Class

Int. Class

Complete Specification Lodged:
Accepted:
Published:

Priority:

Related Art



Name of Applicant: AB AKERLUND & RAUSING,

Address of Applicant: 221 01 LUND 1, SWEDEN.

498,016

Actual Inventor: ROLF URBAN ANDERSSON, BENGT GORAN BJORKLUND and TOMMY HEDBERG.

Address for Service: EDWD. WATERS & SONS,
50 QUEEN STREET, MELBOURNE, AUSTRALIA, 3000.

Complete Specification for the invention entitled:

"A TROUGH-SHAPED PACKAGE, PARTICULARLY FOR EDIBLE FAT OR THE LIKE"

The following statement is a full description of this invention, including the best method of performing it known to the inventor.

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The present invention relates generally to trough-shaped containers or packages of the type having a bottom and side walls projecting upwardly from the bottom to define a receptacle having an open mouth with an edge flange projecting outwardly therefrom. Preferably, the container is designed to be used for edible fat or the like, and therefore the invention will hereinafter be described with reference to such a use. However, to a person skilled in the art it will be obvious that the container may also be used for many other products.

The objective of the present invention is to provide an improved container of the aforementioned type which is simple in construction, which has improved structural stability and which includes means for simply retaining a cover for closing the container.

~~In accordance with the present invention there is provided a container comprising a bottom and side walls projecting upwardly from said bottom to define therewith a receptacle having an open mouth and an edge flange projecting outwardly from said side walls at said mouth, wherein said edge flange is reinforced by a frame or frame portions attached thereto and adapted by means of portions extending inwardly over the container mouth to retain a cover extending into said mouth.~~

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In accordance with the present invention there is provided a container comprising a bottom wall, side walls projecting upwardly from said bottom wall to define a cavity and a side wall edge flange projecting outwardly from said side walls, said side wall edge flange being reinforced by a frame member or members attached thereto having a portion or portions extending inwardly into said cavity, and a cover member comprising an outer edge flange integral with an inner countersunk portion disposed in a different plane to said cover outer edge flange and connected thereto by a substantially vertical portion, said countersunk portion and said vertical portion of the cover co-operating with the portion or portions of said reinforcing frame member or members extending into said cavity to lock said cover member in connected relationship to said container.

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~~The present invention relates to a trough-shaped package, comprising a bottom, side walls projecting from the bottom and an edge flange projecting from the side walls. Preferably, the package is designed to be used for edible fat or the like, and therefore the invention will hereinafter be described with reference to such a use. However, to a person skilled in the art it is obvious that the package may also be used for many other products.~~

10 The package according to the invention is characterized in that said edge flange is wholly or partially reinforced by glued or otherwise attached frame portions adapted by means of portions extending inwardly over the package mouth to ~~keep a cover in place extending into the package mouth.~~

Preferably, said frame portions are made of a fat-repellent material, such as polyvinyl-chloride or polypropene.

Alternatively the frame portions like the rest of the package may be manufactured from cardboard which in itself contains a fat-repellent material or is provided with section edges prepared with such a fat-repellent material, such as a chrome-complex sold under the trade name SCOTCH BAN.

Said frame portions may consist of an entirely closed frame, the outer dimensions of which principally correspond to those of the edge flange. Said entirely closed frame may be manufactured either separately or in one piece with the rest of the package blank. A separately manufactured frame of course has the advantage that the material may be selected independently of the rest of the package.

In a package having a rectangular mouth said frame portions may be in accordance with the longitudinal portions of the edge flange and at the same time extend only a short

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distance over the transverse portions of the edge flange. In this case they may be two in number, and each of them may be made up in one piece with that longitudinal portion of the edge flange to which they should be connected. By this means a material-saving structure is achieved.

The locking action between the cover extending into the package and the frame portions preferably takes place at the corners of the package mouth in that here said frame portions have a larger radius than the rest of the package itself so as to span the mouth in these corners and to provide a locking action on the sliding cover which accordingly is provided with a somewhat longer diagonal than the diagonal distance between frame portions, defining two corners.

Below the invention is more exactly described with reference to the accompanying drawings which by means of examples illustrate three alternative embodiments of the invention.

Figure 1 shows a cardboard blank for a first embodiment of the invention.

Figure 2 shows the package blank according to Figure 1 in the raised condition thereof.

Figure 3 shows a frame adapted to be attached to the package according to Figure 2.

Figure 4 shows the appearance of the package after mounting of the frame according to Figure 3.

Figure 5 shows a cover adapted to snap into the package according to Figure 4.

Figure 5A is a section on line A - A of Figure 5.

Figure 6 shows the blank for a second embodiment of the invention.

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Figure 7 and 8 show the blank according to Figure 6 in a partially and entirely raised condition thereof, respectively.

Figure 9 shows a cover adapted to snap into the package according to Figure 8.

Figure 10 shows the blank for a third embodiment of the invention.

Figures 11 and 12 show the blank according to Figure 10 in a partially and entirely raised condition thereof, respectively.

Figure 13 shows a cover adapted to snap into the package according to Figure 12.

Figure 1 shows a cardboard blank for a first embodiment of the invention. The blank consists of a bottom panel 1, side wall panels 2, 3, 4, 5, corner wall panels 6 and edge flange panels 7, 8, 9, 10 and 11. The edge flange panels 11 are four in number. Since the package primarily is intended for edible fat and the like it is coated on the inside with polypropene and on the outside with polyethylene. However, also other coatings may be used.

The blank according to Figure 1 in conventional way is formed into the shape shown in Figure 2, after which the frame 12 shown in Figure 3 is attached to the edge flange so as to provide the package shown in Figure 4. It should be noted that the frame 12 in the corners 13 has a somewhat larger radius of curvature than the underlying portion of the package in the corners 14. The corners 14 of the package mouth therefore will be spanned by the frame 12. This is utilized to secure a cover 15 (Figure 5) which at the corners 16 thereof has a negative inclination of the normally essentially vertical portions 17. Compare Figure 5A in which said portion

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has reference numeral 17'.

In Figures 6 - 9 a second embodiment of the invention is shown. This embodiment is principally in accordance with the embodiment of Figures 1 - 5, apart from the fact that the frame is manufactured in one piece with the rest of the package blank. Therefore a more exact specification is not necessary. Moreover, the drawings are provided with the same reference numerals as Figures 1 - 5, with addition of small letter a. However for the sake of clarity, all of the reference numerals have not been indicated on the figures.

Figures 10 - 13 show a third embodiment of the invention. Also this embodiment principally is in accordance with the two embodiments described above, and therefore also in this case the same reference numerals are used, with addition of small letter b. The difference consists in that in this embodiment the frame is not completely unbroken and consists of two frame portions 12b' and 12b'', respectively, formed in one piece with the edge flange portions 7b and 8b, respectively. In other respects the structure is in accordance with the structures described above.

The invention of course is not restricted merely to the embodiments described above but may be varied within the scope of the following claims. Thus, for instance, the materials of the different portions of the package may be varied dependent on the product to be packed, and the invention principle of course may be applied to troughs having other corner folding than that one described above. Also other modifications are possible within the scope of the invention conception.

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The Claims defining the invention are as follows:-

1. A container comprising a bottom wall, side walls projecting upwardly from said bottom wall to define a cavity and a side wall edge flange projecting outwardly from said side walls, said side wall edge flange being reinforced by a frame member or members attached thereto having a portion or portions extending inwardly into said cavity, and a cover member comprising an outer edge flange integral with an inner countersunk portion disposed in a different plane to said cover outer edge flange and connected thereto by a substantially vertical portion, said countersunk portion and said vertical portion of the cover co-operating with the portion or portions of said reinforcing frame member or members extending into said cavity to lock said cover member in connected relationship to said container.
2. The container of claim 1, wherein said reinforcing frame member or members is/are integral with said side wall edge flange at at least one side of said container.
3. The container of claim 1, wherein said reinforcing frame member or members is/are manufactured separately from the rest of the container.
4. The container of claim 1, 2 or 3, wherein the side wall edge flange is entirely reinforced by one said frame member, the outer dimensions of which substantially correspond to those of the side wall edge flange.
5. The container of any one of claims 1 to 4 wherein the container has a rectangular mouth.
6. The container of Claim 5 when appendant to any one of Claims 1 to 3 wherein the side wall edge flange is reinforced with frame members which extend along the entire length

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of longitudinally extending regions of said side wall edge flange but continue only a short distance along the transversely extending regions of said side wall edge flange.

7. The container of any one of the preceding Claims wherein the said portion or portions of the reinforcing frame member or members extending inwardly into said cavity are at the corners of the container and are provided by having the corners of the frame member or members of a larger radius than the container corners so as to span the cavity in said corners.

8. A container including a cover substantially as hereinbefore described with reference to and as illustrated in Figures 4 and 5, Figures 8 and 9 or Figures 10, 12 and 13.

DATED THIS 10TH DAY OF NOVEMBER, 1978.

AB AKERLUND & RAUSING

SKP/CC

EDWD. WATERS & SONS
Patent Attorneys
50 Queen Street,
MELBOURNE,
AUSTRALIA.

87,467 ns

Fig. 1

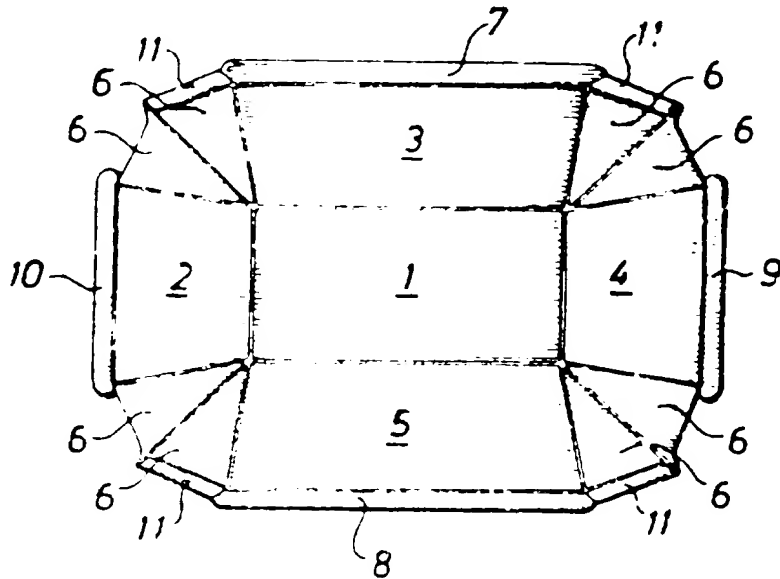


Fig. 2

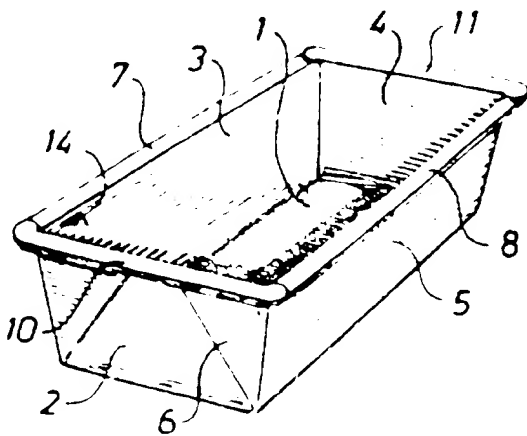


Fig. 3

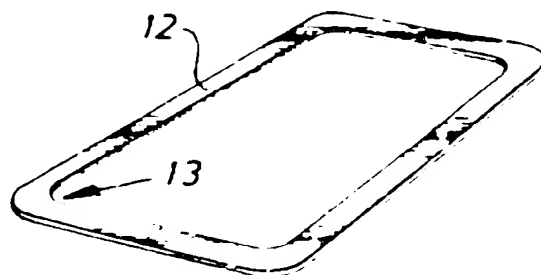


Fig. 5

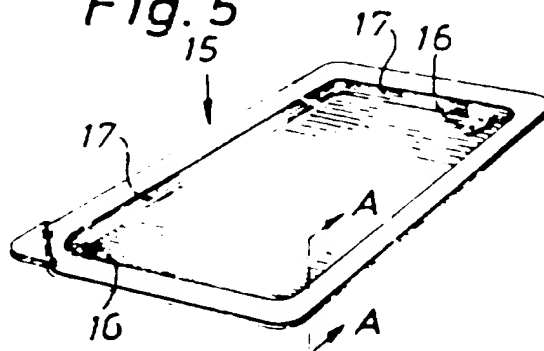


Fig. 4

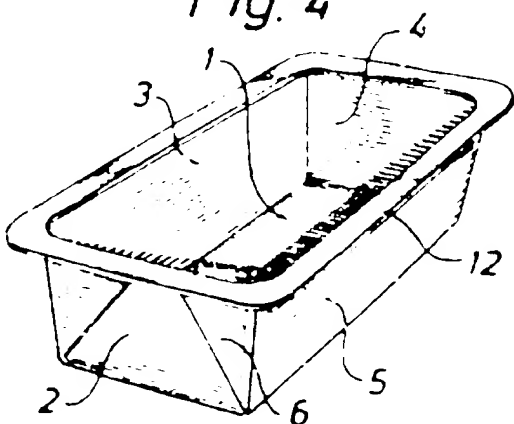
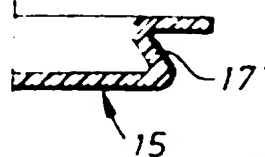


Fig. 5A



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Fig. 6

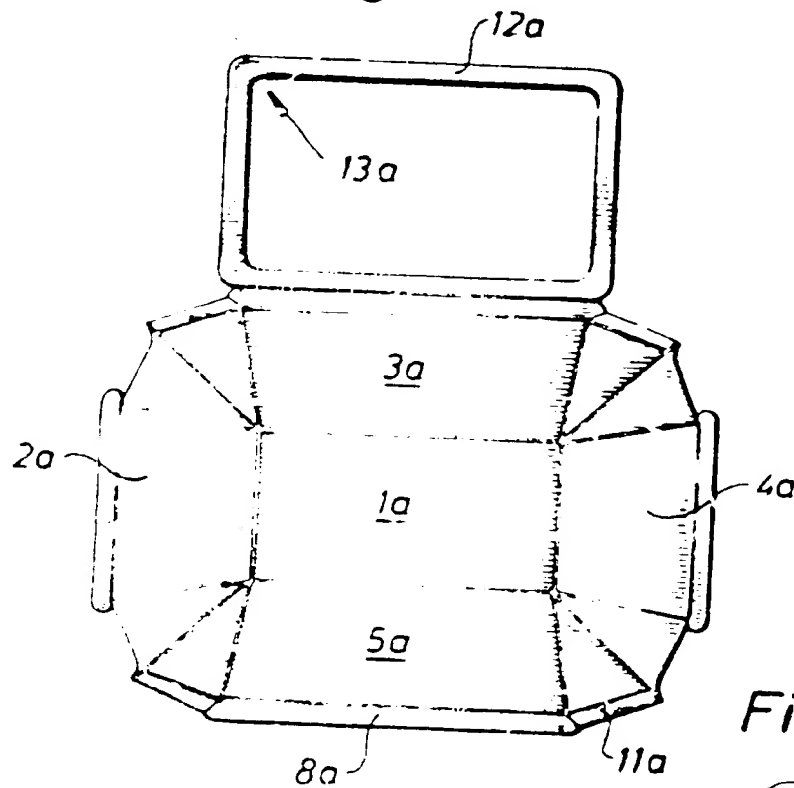


Fig. 9

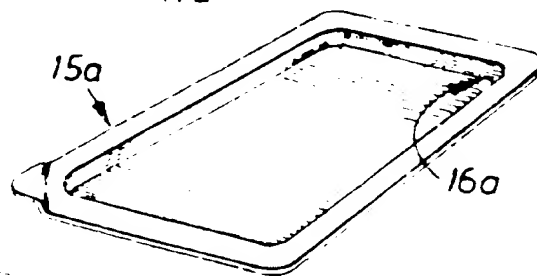


Fig. 7

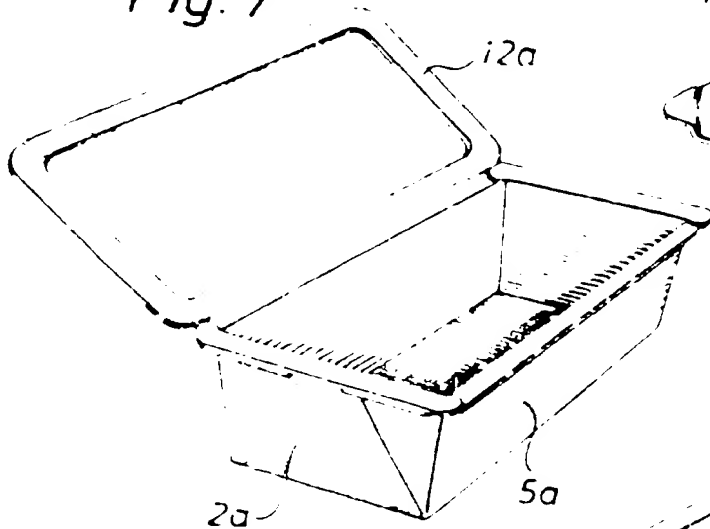
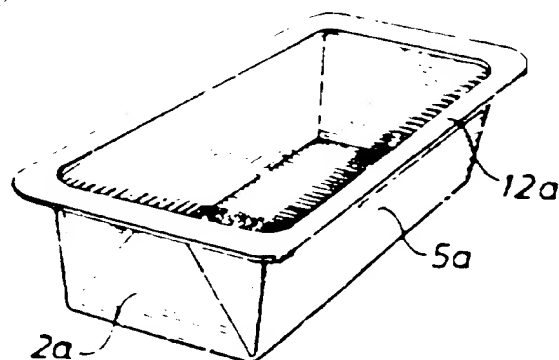


Fig. 8



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Fig. 10

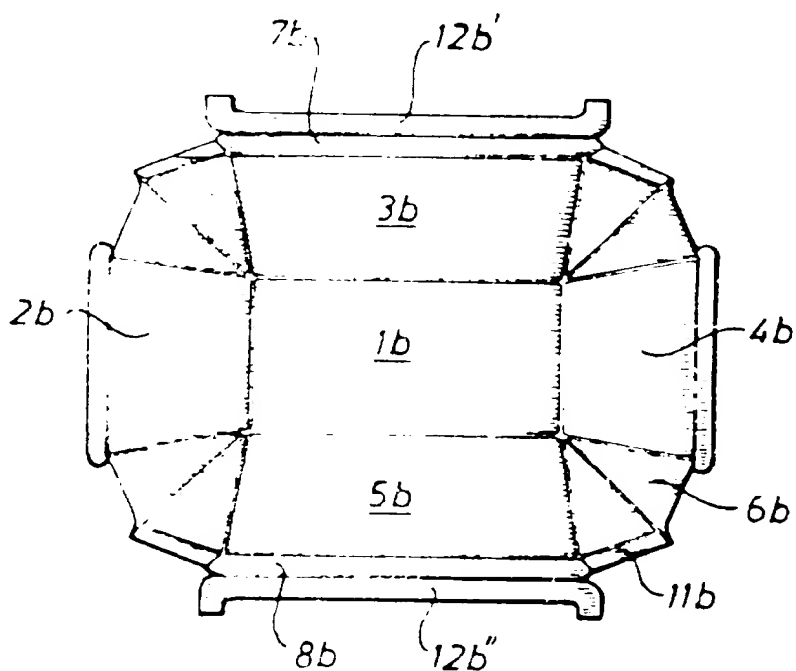


Fig. 11

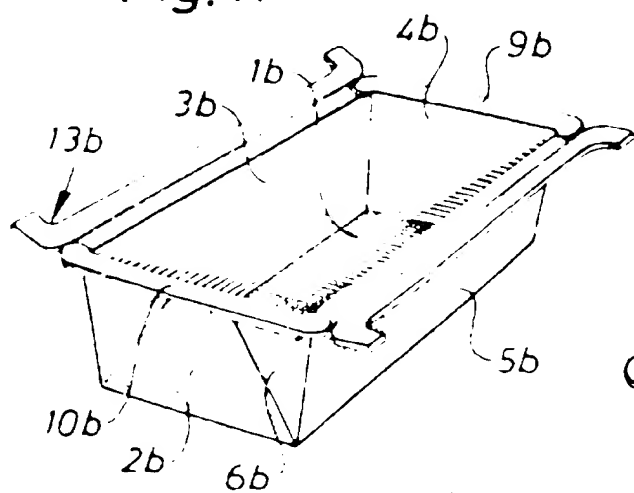


Fig. 12

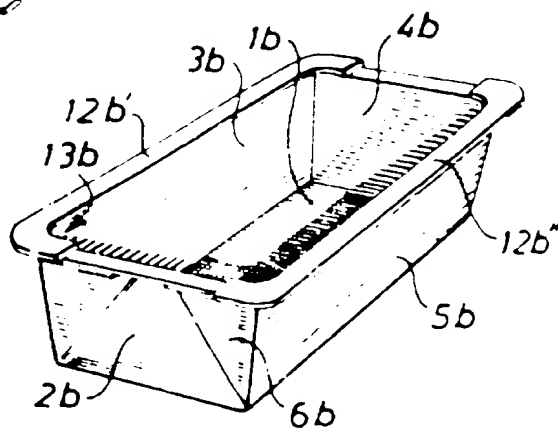


Fig. 13

